

ABSTRACT OF THE DISCLOSURE

A protocol selection matrix adapter that interfaces a host computer to multiple in-vehicle networks. The protocol selection matrix adapter is microprocessor controlled and provides a physical interface to the in-vehicle networks. Further, the control of the protocol selection matrix adapter automatically selects the in-vehicle networks, and the initiation of communications on the detected networks. The protocol selection matrix adapter also is able to reprogram an electronic control unit (ECU) that makes up the in-vehicle network.